

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number
WO 03/060375 A1

- (51) International Patent Classification⁷: F17D 1/17, 1/00
- (21) International Application Number: PCT/NL03/00010
- (22) International Filing Date: 9 January 2003 (09.01.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1019759 16 January 2002 (16.01.2002) NL
- (71) Applicant (for all designated States except US): DSM N.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DIKLAND, Herman, Gerard [NL/NL]; Biesenhof 4, NL-6132 SR Sittard (NL). BOGGELEN VAN, Michel, Paul [NL/NL]; Henri Hermanslaan 154, NL-6162 GJ Geleen (NL).
- (74) Agent: SCHMEETZ, Marcel, Max, Hubertina, Johanna; DSM Patents & Trademarks, P.O. Box 9, NL-6160 MA Geleen (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 03/060375 A1

(54) Title: PROCESS FOR TRANSPORTING A MULTIPHASE SYSTEM THROUGH A PIPELINE

(57) Abstract: The invention relates to a process for transporting a multiphase system through a pipeline. An oil-soluble polymer with a weight-average molecular weight (Mw) of at most 1,500 kg/mol has been added to the system. Preferably the process is applied for the transport of a natural gas-condensate system or for the transport of a petroleum-gas system. The polymer may be an olefin polymer which contains monomer units of ethylene and at least one alpha olefin or an olefin polymer which contains monomer units of ethylene, at least one alpha olefin and at least one non-conjugated polyene.